

Air Quality and Dust Monitoring Monthly Report – April 2020

South Northamptonshire District Council



Department for Transport

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Monthly Summary

- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of dust monitoring undertaken in South Northamptonshire District Council (SNDC) during April 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location in April 2020.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, which highlights: the applicable standards and guidance, as well as the air quality and dust monitoring methodologies to be implemented by nominated undertakers throughout construction.
- 1.1.4 The current phase of works commenced within SNDC during October 2019 and is expected to be completed by July 2020. The current works form part of Chipping Warden road-widening item of the DC3A Work Package and, as presented in Appendix A, Figure 1, include:
- BT ducting;
 - Road box: Ch 0 to Ch 350 type 1, base and binder;
 - Pond 2 excavation and utilities installation;
 - Weekend works to online areas under closure 24th to 27th April;
 - Full road reconstruction;
 - Main line: Ch 375 to Ch 500 type 1 and base course;
 - "V" ditch excavation;
 - Access track construction to surface course;
 - Main line: base course and binder; and
 - Vegetation clearance and fill to verge.
- 1.1.5 One (1) dust monitor is installed around the worksites, where earthworks, construction and trackout activities are underway. These worksites returned a medium dust risk rating (for works currently active on site).
- 1.1.6 Dust monitoring location and results are presented in Appendix B, Table 1, together with a line chart of monthly data from this dust monitor presented in Figure 2. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.

- 1.1.7 The trigger level for PM₁₀ concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.
- 1.1.8 There were no (0) dust trigger alerts recorded during this monitoring period (April 2020).
- 1.1.9 There were no (0) complaints, relating to dust or air quality, received during the monitoring period (April 2020).

Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and Results April 2020

Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ001	449728, 248774	Secured to a lamppost by a footpath connecting Banbury Road to Allens Orchard	M	Yes	No	13.0	1.0	109.8	0	94.9

Figure 2: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitor AQ001

